

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Patent Application of**

Tetsuya ISHIKAWA et al.

**Application No.: Unassigned**

**Filed: August 23, 2001**

**For: COLLAGEN-BINDING  
PHYSIOLOGICALLY ACTIVE  
POLYPEPTIDE**

**Group Art Unit: Unassigned**

**Examiner:** Unassigned



## INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \$\_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \$\_\_\_\_\_ is enclosed for the fee due.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

**BURNS, DOANE, SWECKER & MATHIS, L.L.P.**

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By: Susan M. Dadio  
Susan M. Dadio  
Registration No. 40,373

Date: August 23, 2001

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**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed. Also enclosed is a copy of the International Search Report dated May 23, 2000.

**U.S. PATENTS**

1. HALL et al., U.S. Patent No. 5,800,811, issued September 1, 1998;
2. MOSHER et al., U.S. Patent No. 5,342,762, issued August 30, 1994;
3. MOSHER et al., U.S. Patent No. 5,460,955, issued October 24, 1995; and
4. HASHI et al., U.S. Patent No. 5,302,701, issued April 12, 1994.

**FOREIGN PATENTS**

1. Australian Patent Publication No. AU-B-59315/86 to BARALLE, published January 8, 1987;
2. Japanese Unexamined Patent Publication No. 62-89699 to BARALLE, published April 24, 1987 (corresponds to Australian Patent Application No. AU-B-59315/86 to F. BARALLE, published January 8, 1987);
3. Japanese Patent Publication No. 08-140677 to KIYOTOSHI et al., published June 4, 1996;
4. PCT International Publication No. WO 96/39430 to HALL et al., published December 12, 1996;
5. PCT International Publication No. WO 94/16085 to IRANI et al., published July 21, 1994;
6. European Patent Publication No. 207,751 to BARELLE, published January 7, 1987;

**OTHER DOCUMENTS**

1. ASTERMARK et al., "Baculovirus-Mediated Expression of the Epidermal Growth Factor-Like Modules of Human Factor IX Fused to the Factor XIIIa Transamidation Site in Fibronectin", The Journal of Biological Chemistry, Vol. 269, No. 5, pp. 3690-3697, February 4, 1994, The American Society for Biochemistry and Molecular Biology, Inc, USA;

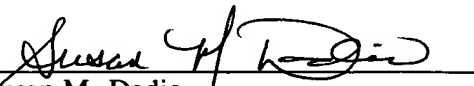
2. OWENS et al., "Mapping the Collagen-Binding Site of Human Fibronectin by Expression in *Escherichia Coli*", The European Molecular Biology Organization Journal, Vol. 5, No. 11, pp. 2825-2830, 1986, IRL Press Limited, Oxford, England;
3. KORNBLIHTT et al., "Primary Structure of Human Fibronectin: Differential Splicing may Generate at least 10 Polypeptides from a Single Gene", The European Molecular Biology Organization Journal, Vol. 4, No. 7, pp. 1755-1759, 1985, IRL Press Limited, Oxford, England;
4. TUAN et al., "Engineering, Expression and Renaturation of Targeted TGF-Beta Fusion Proteins", Collective Tissue Research, Vol. 34, No. 1, pp. 1-9, 1996, Gordon and Breach Science Publishers SA, The Netherlands;
5. NISHI et al., "Collagen-Binding Growth Factors: Production and Characterization of Functional Fusion Proteins having a Collagen-Binding Domain", Proc. Natl. Acad. Sci., Vol. 95, pp. 7018-7023, June 1998, The National Academy of Sciences, USA; and
6. CUNNINGHAM et al., "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis", Science, Vol. 244, pp. 1081-1085, June 2, 1989, The American Association of Advancement of Science, Washington, D.C., USA; and a copy of Alignments.

The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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